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Symphyse verschmolzen. . . . Sämmtliche Wirbelkörper sind ziemlich kurz, vorn und hinten fast flach oder nur ganz schwach ausgehöhlt; die Bogen durch Nähte mit dem Centrum verbunden, so das sie sich leicht ablösen." Furthermore, both Seeley and Lydekker would restrict the genus *Plesiosaurus* to the Lias.

From *Cimoliosaurus*, in Lydekker's wide sense, there are important differences. The anterior teeth are much larger than the posterior ones, and there are no xygophenes on the cervical vertebræ. But, while the genus is evidently different from *Cimoliosaurus* as there defined, it is not so certain that it is distinct from some of the forms included under it. Lydekker, and, following him, Zittel, divide *Cimoliosaurus* into two groups, the cœlospondyline, "probably equivalent to *Polycotylus* Cope," and the "Typical Group," including *Elasmosaurus* Cope, *Mauisaurus* Hector, and *Muraenosaurus* Seely. From this group, Lydekker's definition will sharply exclude our form; but, nevertheless, I do not feel so sure that it is generically different from *Elasmosaurus*. Cope had only a fragment of the skull, and the cervical vertebræ that he describes and figures had the processes so broken away that there is but little left for comparison, save the relative lengths. From this character alone it appears that the vertebræ of our species are less slender, the greatest disproportion between length and height being as nine to seven, while a median cervical of *Elasmosaurus platyrus* Cope, figured by the author, has a relation of eight to five. There are, also, other differences in the sculpturing, which are, at least, of specific value. If the type of *Elasmosaurus* has zygosphenal vertebræ, there can be no question of the generic distinction; but I cannot find any statement of the author to that effect. So the question must yet remain of the generic identity of the animal until more material has been obtained. Of the specific distinction, however, there can be scarcely a question, and, hence, the name here given.

Great credit is due to Mr. West for his recognition of the value of this specimen, and his corresponding care in its collection. I desire, also, to express my thanks to my friend, Dr. George Baur, of Clark University, for the communication of literature, and various suggestions.

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